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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Institute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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of

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Application Number	10/792,323
Filing Date	March 3, 2004
First Named Inventor	Lawrence C. Lei
Group Art Unit	1734
Examiner Name	Sharon Latimer
Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS

Submission Date

December 30, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
SL	A1	US-20020009544	01/24/2002	McFeely, et al.	1(1A5) M
	A2				- -
	A3				
	A4				
	A5				
	A6				
	A7				
	A8				
	A9				
	A10				
	A11				

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
SL	B1	EP 1 079 001	02/28/2001	Morton International, Inc.		
SL	B2	GB 2 151 662	10/29/1984	N.V. Phillips' Gloeilampenfabrieken		
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	B5					

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
SL	C1	International Search Report from International Application No. PCT/US03/22186 (AMAT/6798-PC)	

Examiner

S. P.

Date Considered

6/28/04

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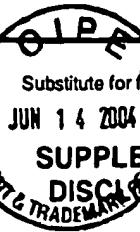
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(Use as many sheets as necessary)

Application Number	10/792,323
Filing Date	March 3, 2004
First Named Inventor	Lawrence C. Lei
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS

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Submission Date

June 8, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)			Citation	Figure
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		Country Code ⁴ -Number ⁵ -Kind Code ⁶ (if known)				
SP	B1	EP 1 167 569 A1	06/05/2001	IPS LIMITED		
SP	B2	GB 2 355 727 A	05/02/2001	SAMSUNG ELECTRONICS CO. LTD.		
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SP	B5	JP 05-047666	02/26/1993	FUJITSU LTD		

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6/21/05

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Substitute for form 1449A/PTO				Application Number	10/792,323
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				First Named Inventor	Lawrence C. Lei
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	2	of	11	Submission Date	June 8, 2004

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear <i>CLAT 16</i>
		Number-Kind Code ² (if known)			
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	A21	US-20030116087 A1	06/26/2003	NGUYEN, ET AL.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
<i>SP</i>	B6	JP 05-206036	08/13/1993	RIKAGAKU KENKYUSHO	
<i>X</i>	B7	JP 05-234899	09/10/1993	HITACHI LTD	
<i>SP</i>	B8	JP 05-270997	10/19/1993	FUJITSU LTD	
<i>SP</i>	B9	JP 06-224138 (Abstract Only)	05/31/1994	TEXAS INSTRUMENTS INC (US)	
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Examiner	<i>S. P.</i>	Date Considered	<i>6/20/04</i>
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 3, 2004
(Use as many sheets as necessary)				First Named Inventor	Lawrence C. Lei
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	3	of	11	Submission Date	June 8, 2004

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Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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SP	B11	JP 2000122725	04/28/2000	CKD CORP; TOSHIBA CORP		
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SC	B13	JP 2000319772 (Abstract Only)	03/28/2000	P K LTD		
SC	B14	JP 2001020075 (Abstract Only)	11/15/2000	ASM MICROCHMISTRY OY		
SC	B15	JP 2001111000	12/26/2002			

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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SL	B17	JP 58-097917 (Abstract Only)	06/10/1983	MATSUSHITA DENKI SANGYO KK		
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SD	A73	US-20010054769	12/27/2001	RAAIJMAKERS, ET AL.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)			
SD	B21	WO 0079576 A1	12/28/2000	GENITECH, INC.	
LP	B22	WO 01/15220 A1	03/01/2001	ASM AMERICA, INC.	
LP	B23	WO 01/17692 A1	03/15/2001	ASM AMERICA, INC.	
YR	B24	WO 01/27346 A1	04/19/2001	ASM MICROCHEMISTRY OY	
YR	B25	WO 01/27347 A1	04/19/2001	ASM MICROCHEMISTRY OY	

Examiner *LP* Date Considered *6/21/04*

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Substitute for form 1449A/PTO				Application Number	10/792,323
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 3, 2004
(Use as many sheets as necessary)				First Named Inventor	Lawrence C. Lei
Sheet	6	of	11	Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
				Submission Date	June 8, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number-Kind Code ² (If known)			CLIA		
JL	A91	US-6578287 B2	06/17/2003	ASWAD			
	A92	US-6572705 B1	06/03/2003	SUNTOLA, ET AL			
	A93	US-6551406 B1	04/22/2003	KILPI			
	A94	US-6511539 B1	01/28/2003	RAAIJMAKERS			
	A95	US-6482733	11/19/2002	RAAIJMAKERS, ET AL			
	A96	US-6482262	11/19/2002	ELERS, ET AL			
	A97	US-6481945 B1	11/19/2002	HASPER, ET AL			
	A98	US-6478872 B1	11/12/2002	CHAE, ET AL			
	A99	US-6475910	11/05/2002	SNEH			
	A100	US-6475276	11/05/2002	ELERS, ET AL			
	A101	US-6468924	10/22/2002	LEE, ET AL			
	A102	US-6451695	09/17/2002	SNEH			
	A103	US-6451119	09/17/2002	SNEH, ET AL			
	A104	US-6447607 B2	09/10/2002	SOININEN, ET AL			
	A105	US-6416577	07/09/2002	SUNTOOLA, ET AL			
	A106	US-6399491	06/04/2002	JEON, ET AL			
	A107	US-6391785	05/21/2002	SATTA, ET AL			
JL	A108	US-6379748	04/30/2002	BHANDARI, ET AL			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (If known)				
X	B26	WO 01/29280 A1	04/26/2001	ASM AMERICA, INC.		
Y	B27	WO 01/29891 A1	04/26/2001	ASM AMERICA, INC.		
Y	B28	WO 01/29893 A1	04/26/2001	ASM AMERICA, INC.		
Y	B29	WO 01/36702 A1	05/25/2001	GENITECH CO., LTD.		
Y	B30	WO 01/66832 A2	09/13/2001	ASM AMERICA, INC.		

Examiner JL Date Considered 6/16/05

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Substitute for form 1449A/PTO				Application Number	10/792,323
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 3, 2004
				First Named Inventor	Lawrence C. Lei
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	7	of	11	Submission Date	June 8, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JQ	A109	US-6372598	04/16/2002	KANG, ET AL.	C1P3
	A110	US-6358829	03/19/2002	YOON, ET AL.	
	A111	US-6348376	02/19/2002	LIM, ET AL.	
	A112	US-6342277	01/29/2002	SHERMAN	
	A113	US-6306216 B1	10/23/2001	KIM, ET AL.	
	A114	US-6305314 B1	10/23/2001	SNEH, ET AL.	
	A115	US-6287965	09/11/2001	KANG, ET AL.	
	A116	US-6284646	09/04/2001	LEEM	
	A117	US-6270572 B1	08/07/2001	KIM, ET AL.	
	A118	US-6231672 B1	05/15/2001	CHOI, ET AL.	
	A119	US-6224681 B1	05/01/2001	SIVARAMAKRISHNAN, ET AL.	
	A120	US-6207487	03/27/2001	KIM, ET AL.	
	A121	US-6203613	03/20/2001	GATES, ET AL.	
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	A123	US-6197683 B1	03/06/2001	KANG, ET AL.	
	A124	US-6183563 B1	02/06/2001	CHOI, ET AL.	
	A125	US-6174809	01/16/2001	KANG, ET AL.	
JQ	A126	US-6174377 B1	01/16/2001	DOERING, ET AL.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
SF	B31	WO 02/08485 A2	01/31/2002	ASM INTERNATIONAL N.V.		
	B32	WO 02/08488 A1	01/31/2002	ASM MICROCHEMISTRY OY		
SP	B33	WO 02/43115 A2	05/30/2002	ASM AMERICA, INC.		
SP	B34	WO 02/45167 A2	06/06/2002	ASM MICROCHEMISTRY OY		
SP	B35	WO 02/45871 A1	06/13/2002	ANGSTRON SYSTEMS, INC.		

Examiner	S-PR	Date Considered	6/20/04
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**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT BY
APPLICANT**

(Use as many sheets as necessary)

Application Number	10/792,323
Filing Date	March 3, 2004
First Named Inventor	Lawrence C. Lei
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS

Sheet

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of

11

Submission Date

June 8, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear <i>(List)</i>
		Number-Kind Code ² (if known)			
SQ	A127	US-6162488	12/19/2000	GEVELBER, ET AL.	
	A128	US-6144060	11/07/2000	PARK, ET AL.	
	A129	US-6143080	11/07/2000	BARTHOLOMEW, ET AL.	
	A130	US-6139700	10/31/2000	KANG, ET AL.	
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	A132	US-6136725	10/24/2000	LOAN, ET AL.	
	A133	US-6124158	09/26/2000	DAUTARTAS, ET AL.	
	A134	US-6084302	07/04/2000	SANDHU	
	A135	US-6072939	06/06/2000	ATWELL	
	A136	US-6042652	03/28/2000	HYUN, ET AL.	
	A137	US-6015917	01/18/2000	BHANDARI, ET AL.	
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	A140	US-5966499	10/12/1999	HINKLE, ET AL.	
	A141	US-5942089	08/24/1999	SPROUL, ET AL.	
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	A143	US-5916365	06/29/1999	SHERMAN	
	A144	US-5879459	03/09/1999	GADGIL, ET AL.	
SL	A145	US-5855680	01/05/1999	SOININEN, ET AL.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
YD	B36	WO 96/17107	06/06/1996	MIKROKEMIA OY		
SL	B37	WO 99/01595	01/14/1999	NESTE OY		
YD	B38	WO 99/29924	06/17/1999	NESTE OYJ		
YY	B39	WO 99/65064	12/16/1999	A.S.M. INTERNATIONAL N.V.		

Examiner

Date Considered

6/12/04

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 3, 2004
				First Named Inventor	Lawrence C. Lei
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	9	of	11	Submission Date	June 8, 2004

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		Number-Kind Code ² (if known)			
SL	A146	US-5835677	11/10/1998	LI, ET AL.	
	A147	US-5820678	10/13/1998	HUBERT, ET AL.	
	A148	US-5807792	09/15/1998	ILG, ET AL.	
	A149	US-5796116	08/18/1998	NAKATTA, ET AL.	
	A150	US-5764849	06/09/1998	ATWELL	
	A151	US-5730802	03/24/1998	ISHIZUMI, ET AL.	
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	A153	US-5674786	10/07/1997	TURNER, ET AL.	
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	A155	US-5645642	07/08/1997	NISHIZATO, ET AL.	
	A156	US-5630878	05/20/1997	MIYAMOTO, ET AL.	
	A157	US-5620524	04/15/1997	FAN, ET AL.	
	A158	US-5595803	01/21/1997	KLINEINST, ET AL.	
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	A161	US-5483919	01/16/1996	YOKOYAMA, ET AL.	
	A162	US-5480818	01/02/1996	MATSUMOTO, ET AL.	
	A163	US-5447569	09/05/1995	HISKES, ET AL.	
	A164	US-5443647	08/22/1995	AUCOIN, ET AL.	
	A165	US-5441703	08/15/1995	JURGENSEN	
	A166	US-5377429	01/03/1995	SANDHU, ET AL.	
	A167	US-5374570	12/20/1994	NASU, ET AL.	
	A168	US-5354516	10/11/1994	TOMITA	
	A169	US-5338362	08/16/1994	IMAHASHI	
	A170	US-5294286	03/15/1994	NISHIZAWA, ET AL.	
	A171	US-5281274	01/25/1994	YODER	
	A172	US-5261959	11/16/1993	GASWORTH	
LP	A173	US-5225366	07/06/1993	YODER	

Examiner S. R Date Considered 6/26/05

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				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	10	of	11	Submission Date	June 8, 2004

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	B46					
	B47					
	B48					
	B49					
	B50					

Examiner J. R. Date Considered 6/26/05
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Substitute for form 1449B/PTO				Application Number	10/792,323
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	March 3, 2004
(Use as many sheets as necessary)				First Named Inventor	Lawrence C. Lei
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AMAT/5191.C1/ISM/CORE/MCVD/PJS
Sheet	11	of	11	Submission Date	June 8, 2004

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
SF	C1	Kukli, et al., "Tailoring the Dielectric Properties of HfO ₂ -Ta ₂ O ₅ Nanolaminates," Applied Physics Letters, Vol. 68, No. 26, June 24, 1996; p. 3737-9			
RH	C2	Kukli, et al. "Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from Ta(OC ₂ H ₅) ₅ and H ₂ O," Journal of the Electrochemical Society, Vol. 142, No. 5, May 1995; p. 1670-5			
X	C3	Kukli, et al., "In situ Study of Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films From Ta(OC ₂ H ₅) ₅ and H ₂ O," Applied Surface Science, Vol. 112, March 1997, p. 236-42			
X	C4	Kukli, et al., "Properties of Ta ₂ O ₅ -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy," Journal of the Electrochemical Society, Vol. 144, No. 1, Jan. 1997; p. 300-6			
SM	C5	Kukli, et al., "Properties of (Nb _{1-x} Ta _x) ₂ O ₅ Solid Solutions and (Nb _{1-x} Ta _x) ₂ O ₅ -ZrO ₂ Nanolaminates Grown by Atomic Layer Epitaxy," 1997; p. 785-93.			
DL	C6	Ritala, M., et al., "Chemical Vapor Deposition," January 1999, p. 6-9			
Y	C7	Rossnagel, et al. "Plasma-enhanced Atomic Layer Deposition of Ta and Ti for Interconnect Diffusion Barriers," J. Vac. Sci. Technol. B., Vol. 18, No. 4 (July 2000); p2016-20			
Y	C8	Niinisto, et al. "Synthesis of Oxide Thin Films and Overlays by Atomic Layer Epitaxy for Advanced Applications," Materials Science and Engineering B41 (1996) 23-29			
Y	C9	Eisenbraum, et al. "Atomic Layer Deposition (ALD) of Tantalum-based materials for zero thickness copper barrier applications," Proceedings of the IEEE 2001 International Interconnect Technology Conference (Cat. No. 01EX461) 2001			

Examiner

S. R

Date Considered

6/10/04

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